

ABSTRACT

A device for measuring various elements associated with a body in motion is provided. One embodiment of the device includes a camera and a second shutter. The second shutter has a shutter speed that is faster than the image capture rate of the camera. The second shutter is coupled to a triggering mechanism. When a moving object passes the triggering mechanism, the second shutter opens for a very small amount of time, thereby enabling the camera to take a clear picture of the moving object at a specific, predetermined time. The picture may then be transmitted to a computer or other video storage means. Software in the computer facilitates measurement of elements associated with the moving body. One exemplary application is the measurement of a golfer's body, club and ball during a golf swing at the moment when the club head contacts the ball. The system allows clear pictures of the golfer to be taken with a traditional video camera.